

Notice of Allowability

Application No.

10/622,698

Examiner

Donna V. Lui

Applicant(s)

MATOBA ET AL.

Art Unit

2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 21 July 2003.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 7/21/03 & 11/06/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/622,698, filed on 07/21/2003.

Allowable Subject Matter

2. **Claims 1-18** are allowed.

The following is a statement of reasons for the indication of allowable subject matter: Independent Claim 10 is allowed in conjunction with Claim 1 since Claim 10 is an apparatus of Claim 1, which includes all the disclosures with the exception of an approximate simplified scaling factor generator for receiving a source scaling factor having a numerator and a denominator, not stating whether the numerator and the denominator being necessarily positive integers.

Regarding the independent Claims 1 and 10, the applicant admitted prior art teaches a method of storing the image signal and Yip et al (Patent No.: US 6,714,210 B1, herein after referred to as "Yip") discloses receiving a source scaling factor, generating interpolation coefficients, reading reference pixels from the source image signal memory, and performing interpolation on the reference pixels.

Yip teaches the logic and control unit (LCU) to calculate the horizontal sampling increment $step_x$ by dividing the input image width with output image width and similarly calculating the vertical sampling increment $step_y$, by dividing the input image height with the output image height, where a cycle count is dependent on the horizontal and vertical sampling

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increment step_x and step_y ; however, the Yip does not teach the calculation of the increment step_x and step_y as an upper and lower approximate simplified scaling factors being a fraction, having a numerator less than the numerator of the source scaling factor and a denominator less than the denominator of the source scaling factor, where the upper and lower approximate scaling factors are respectively greater and less than the source scaling factor, nor does Yip teach the addressing of information, selection of signals and phase information based on the upper and lower approximate simplified scaling factors as recited in the independent claims.

The failure to include teaching the calculation of the upper and lower approximate simplified scaling factors and associated processes with such factors leads to a failure to disclose the scaling method and apparatus as claimed in Claims 1 and 10.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donna V. Lui whose telephone number is (571) 272-4920. The examiner can normally be reached on Monday through Friday 8:30 a.m. - 5:00 p.m..

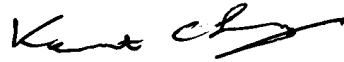
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Donna V Lui
Examiner
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KENT CHANG
PRIMARY EXAMINER